Intermedial Application No
PCT/EP2004/053545

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER G02B6/10 H04B10/18 G02B6/1	.6	
According to	o International Patent Classification (IPC) or to both national classif	ication and IPC	
	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classification sy	allon symbols)	
Documentat	lion searched other than minimum documentation to the extent that	such documents are included in the fields s	earched
Electronic da	ata base consulted during the International search (name of data i	pase and, where practical, search terms used	J)
EPO-In	ternal, WPI Data, PAJ, INSPEC		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·
Category °	Citation of document, with indication, where appropriate, of the s	elevant passages	Relevant to claim No.
X	US 5 943 466 A (CORNING INC) 24 August 1999 (1999-08-24) cited in the application column 7, line 49 - column 8, li figure 11	ine 21;	1-4,8,9, 21
A	GALTAROSSA A ET AL: "POLARIZAT! DISPERION PROPERTIES OF CONSTANT RANDOMLY BIREFRINGENT FIBERS" OPTICS LETTERS, OPTICAL SOCIETY AMERICA, WASHINGTON, US, vol. 28, no. 18, 15 September 2003 (2003-09-15), 1639-1641, XP001172641 ISSN: 0146-9592 cited in the application the whole document	TLY SPUN OF	1-23
1		-/	
X Furti	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.
• Special ca	ategories of cited documents:	"T" later document published after the inte	emational filing date
consid	ent defining the general state of the art which is not fered to be of particular relevance document but published on or after the international	or priority date and not in conflict with cited to understand the principle or th invention	n the application but early underlying the
filing d "L" docume which	iate ant which may throw doubts on priority claim(s) or is clied to establish the publication date of another	"X" document of particular relevance; the cannot be considered novel or canno involve an inventive step when the de "Y" document of particular relevance; the	t be considered to ocument is taken alone
"O" docume other r	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or manual to the later to the later and the late	cannot be considered to involve an in document is combined with one or m ments, such combination being obvio in the art.	ore other such docu-
later th	ent published prior to the International filing date but than the priority date claimed	'8' document member of the same patent	
	actual completion of the international search  6 February 2005	Date of mailing of the international sea	иси героп
	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NI. – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3018	Frisch, A	

2

htter onal Application No PCT/EP2004/053545

		PCT/EP2004/053545
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
A	XIN CHEN, MING-JUN LI, AND D.A. NOLAN: "Scaling properties of polarization mode dispersion of spun fibers in the presence of random mode coupling" OPTICS LETTERS, vol. 27, no. 18, 15 September 2002 (2002-09-15), pages 1595-1597, XP002289414 the whole document	1-23
A	GALTAROSSA A ET AL: "OPTIMIZED SPINNING DESIGN FOR LOW PMD FIBERS: AN ANALYTICAL APPROACH"  JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE. NEW YORK, US, vol. 19, no. 10, October 2001 (2001-10), pages 1502-1512, XP001115815  ISSN: 0733-8724  cited in the application the whole document	1-23
A	WO 00/14579 A (DEUTSCHE TELEKOM AG; SCHMITZER HEIDRUN (DE); DULTZ GISELA (DE); DULTZ) 16 March 2000 (2000-03-16) page 3, line 37 - page 5, line 2	1-23
Υ	EP 1 136 850 A (SUMITOMO ELECTRIC INDUSTRIES) 26 September 2001 (2001-09-26) page 2, line 23 - line 57; figures 1,3,6	10-20, 22,23
X	WO 02/03115 A (PIRELLI CAVI E SISTEMI S.P.A; GALTAROSSA, ANDREA; PIZZINAT, ANNA; PALM) 10 January 2002 (2002-01-10) page 32, line 7 - page 33, line 5 page 36, line 8 - page 37, line 24; figures 3,13	5-7
P,X	WO 2004/095097 A (CORNING INC 'US!; CHEN XIN 'US!; LI MING-JUN 'US!; MEYER JESSE C 'US!;) 4 November 2004 (2004-11-04) page 3, paragraph 5 - page 4, paragraph 2 page 10, paragraph 3 - page 11, paragraph 1; figures 7,8	5–7
P,X	WO 2004/028989 A (PIRELLI & C. S.P.A; ROBA, GIACOMO, STEFANO; SARCHI, DAVIDE; TRAVAGNIN,) 8 April 2004 (2004-04-08) page 5, line 17 - page 6, line 11 page 23, line 9 - page 25, line 4; figures 9,11	5-7
Υ .	US 5 613 028 A (CORNING INC.) 18 March 1997 (1997-03-18) column 5, line 40 - column 6, line 58 column 7, line 4 - line 30; figures 3,4	10-20, 22,23
	-/	

2

Internal Application No PCI/EP2004/053545

	·	PCT/EP2004/053545		
C.(Continue	LION) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
P,A	ANDREA GALTAROSSA ET AL.: "First- and Second-Order PMD Statistical Properties of Constantly Spun Randomly Birefringent Fibers" JOURNAL OF LIGHTWAVE TECHNOLOGY, vol. 22, no. 4, 4 April 2004 (2004-04-04), pages 1127-1136, XP002317927 the whole document	1-23		
	•			
	•			
ļ				

information on patent family members

Interplemal Application No PC1/EP2004/053545

Patent document	$\neg \tau$	Publication		Patent family	Publication
cited in search report		date		member(s)	date
US 5943466	Α	24-08-1999	US	6240748 B1	05-06-2001
			ΑU	719604 B2	11-05-2000
			ΑU	1579497 A	11-08-1997
			BR	9707059 A	20-07-1999
			CA	2242989 A1	24-07-1997
			CN	1209793 A ,C	03-03-1999
			DE	69730945 D1	04-11-2004
			EP	0876305 A1	11-11-1998
			ĴΡ	3226283 B2	05-11-2001
			JP	11508221 T	21-07-1999
			RU		
				2166484 C2	10-05-2001
			WO	9726221 A1	24-07-1997 
WO 0014579	Α	16-03-2000	DE	19841068 A1	16-03-2000
			ΑT	241154 T	15-06-2003
			DE	59905676 D1	26-06-2003
			WO	0014579 A1	16-03-2000
			EP	1121612 A1	08-08-2001
			JP	2002524764 T	06-08-2002
			US	6813424 B1	02-11-2004
EP 1136850	A	26-09-2001	EP	1136850 A1	26-09-2001
F! 110000	~	20 03 2001	WO	0118572 A1	15-03-2001
			US	6567595 B1	20-05-2003
WO 0203115	Α	10-01-2002	AU	7059001 A	14-01-2002
MO 0503113	А	10 01 5005	BR	0112220 A	13-05-2003
			WO	0203115 A1	10-01-2002
			EP	1297371 A1	02-04-2003
					05-02-2004
			U\$	2004022507 A1	05-02-2004 
WO 2004095097	Α	04-11-2004	US	2004184751 A1	23-09-2004
			WO	2004095097 A1	04-11-2004
WO 2004028989	A	08-04-2004	WO	2004050573 A1	17-06-2004
			BR	0306455 A	19-10-2004
			WO	2004028989 A1	08-04-2004
US 5613028	Α	18-03-1997	AU	698533 B2	29-10-1998
	- •		ΑŬ	6678796 A	05-03-1997
			BR	9610421 A	06-07-1999
			CA	2221989 A1	20-02-1997
			CN	1192809 A	09-09-1998
			DE	69615205 D1	18-10-2001
			DE	69615205 T2	02-05-2002
				0843833 A1	27-05-1998
			EP		14-09-1999
			JP RU	11510619 T 2162241 C2	
			D11	21622/(1-12	20-01-2001
			WO	9706457 A1	20-02-1997